

**San Francisco Regional Office**

6920 Koll Center Parkway, Suite 216  
Pleasanton, CA 94566  
(925) 426-2600  
FAX (925) 426-0106

**FACSIMILE COVER SHEET**

**To:** Ms. Rebecca Chou      **Fax No:** 213/576-6640  
**Company:** Los Angeles Regional Water Quality Control Board  
**From:** Trevor A. Donaghu  
Senior Project Manager  
Real Estate and Financial Services  
**Date:** November 22, 1999      10:18 AM

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**Number of Pages (including cover sheet):** 21

**Please confirm receipt:**  YES  NO

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**COMMENTS**

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Los Nietos Business Park  
Santa Fe Springs, California  
SLJC Case No. 83

The soil investigation report for the above site is attached. Please contact me with any questions at (925) 426-2625. Thank you.

(JW) # 883

**San Francisco Regional Office**

6920 Koll Center Parkway, Suite 216  
 Pleasanton, CA 94566  
 (925) 426-2600  
 Fax (925) 426-0106

**Clayton**  
 ENVIRONMENTAL  
 CONSULTANTS

November 19, 1999

Mr. Jimmy Woo  
**LOS ANGELES REGIONAL WATER QUALITY CONTROL BOARD**  
 320 West 4th Street, Suite 200  
 Los Angeles, California 90013

Clayton Project No. 70-00302 00

**Subject:** Soil Investigation - Northern Excavation  
 Los Nietos Business Center  
 9120-9160 South Norwalk Boulevard  
 11925-11933 East Los Nietos Road  
 Santa Fe Springs, California  
 SLIC Case No. 883

Dear Mr. Woo:

Clayton Environmental Consultants, a division of Clayton Group Services (Clayton), on behalf of WHC-Six Real Estate Limited Partnership (WHC-Six), is pleased to submit this report on the soil investigation at the above-referenced subject property (Figure 1). This investigation was performed in accordance with our workplan, dated November 5, 1999, which was approved in Rebecca Chou's November 8, 1999 letter.

**Background**

Applied Geosciences Inc. conducted extensive remedial work at the subject property in 1988, including the excavation and removal of petroleum hydrocarbon-impacted soil. As part of the remedial activities, approximately 6,400 cubic yards of soil were excavated to depths ranging from 25 to 47 feet below ground surface (bgs) along the northern border of the subject property. The base and sidewalls of the excavation were sampled for total petroleum hydrocarbons (TPH). However, no testing for volatile organic compounds (VOCs) was conducted.

Following the remedial activities, the subject property was redeveloped in 1988. Portions of the former excavation are now covered with buildings.

In September 1999, Clayton installed a monitoring well (MW-6) to a depth of 58 feet along the northern boundary of the subject property, within the limits of the previously excavated area. Soil samples were collected at 5-foot intervals during drilling and analyzed for VOCs. Laboratory results show that VOCs were not detected above their

STANISIK PROJECTS ARE NON-PUBLIC. See Nietos.WK1 Soil Sampling Report.991109.pdf

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Mr. Jimmy Woo  
Los Angeles Regional Water Quality Control Board  
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respective method detection limits in any of the soil samples, with the exception of the saturated soil sample collected at the groundwater interface (50 feet bgs), which contained 13 micrograms per kilogram (ug/kg) tetrachloroethene (PCE). The PCE detected in the 50-foot sample is attributed to PCE-contaminated groundwater migrating onto the subject property from upgradient sources. Groundwater samples were collected from MW-6 on September 13, 1999. Laboratory analysis reported concentrations of PCE at 75.5 micrograms per liter (ug/l) PCE, 7.2 ug/l trichloroethene (TCE), and 2.4 ug/l 1,2-dichloroethene (1,2-DCE).

### **Purpose**

The purpose of the additional soil sampling is to assess the soil under and around the former northern excavation area of the subject property. The additional soil sampling was requested by the Los Angeles Regional Water Quality Control Board (RWQCB), in Rebecca Chou's letter dated November 8, 1999.

### **Field Activities**

Soil boring and sampling activities were conducted on November 12, 1999, under the supervision of Clayton Geologist Brian Hawes. Soil boring CPT-1 was completed with a hand auger. The remaining soil borings were completed using a cone penetrometer (CPT) contracted from Gregg Drilling, of Irvine, California.

#### **Soil Boring and Sampling**

Clayton completed five soil borings to 10 feet below ground surface (bgs) (CPT-1 & CP-4 through CPT-7) (Figure 1) and one soil boring to 42 feet bgs (CPT-2) in and around the former northern excavation area. The 10-foot soil borings were completed near the accessible edges of the former excavation, and the 42-foot boring was completed through the southern portion of the former excavation. Refusal was encountered at approximately 42 feet in CPT-2.

Clayton experienced difficult drilling conditions at the subject property. Several borings were attempted near the southern edge of the excavation area, and refusal was encountered at approximately 5 feet. CPT-2, located in the middle of the southern portion of the excavation, encountered refusal at approximately 42 feet bgs.

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At each soil boring location, the CPT was advanced to immediately above the target depth, at which point it was retracted and fitted with a soil sampling probe. The probe was then advanced to the target depth. One soil sample was collected at 10 feet bgs in each of the 10-foot soil borings, and soil samples were collected at 10 and 40 feet bgs in the 42-foot boring. Soil samples were screened for VOCs using a photoionization detector (PID), and submitted to a laboratory for analysis for VOCs. PID screening results are listed in Table 1 to the right.

Upon completion of field activities, all soil borings were backfilled with bentonite chips and hydrated with water prior to being patched with concrete or asphalt.

### Soils

All soil samples, with the exception of CPT-2-10, were collected from native soil adjacent to the former excavation.

Based on CPT logs (attached), the subject property is underlain by clays, silts, and silty sands. All of the collected soil samples appeared to be native soil, with the exception of the 10-foot sample from CPT-2. Sample CPT-2-10 appeared to be fill. Groundwater was not encountered during soil boring activities.

### Laboratory Analyses

Soil samples were transported to Del Mar Analytical in Irvine, California, and analyzed for VOCs using USEPA Method 8260. Certified analytical laboratory reports are attached.

Volatile organic compounds (VOCs) were not detected in any of the soil samples except the 40-foot sample from boring CPT-2, which contained PCP and some other low concentrations of petroleum-related compounds, as indicated in Table 2.

<b>Table 1</b> <b>PID Soil Screening Results</b>	
<b>Sample</b>	<b>PID Reading (ppm)</b>
CPT-1-10	0.0
CPT-2-10	0.0
CPT-2-40	39.8
CPT-4-10	0.3
CPT-5-10	0.0
CPT-6-10	0.2
CPT-7-10	0.0

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**Table 2**  
**Soil VOC Results**  
**September 1999**  
All results are in micrograms per kilogram

Compound	CPT-1- 10	CPT-2- 10	CPT-2- 40	CPT-4- 10	CPT-5- 10	CPT-6- 10	CPT-7- 10	PRG*
n-Butylbenzene	ND	ND	14	ND	ND	ND	ND	130,000
sec-Butylbenzene	ND	ND	63	ND	ND	ND	ND	100,000
p-Isopropyltoluene	ND	ND	12	ND	ND	ND	ND	--
Naphthalene	ND	ND	45	ND	ND	ND	ND	55,000
n-Propylbenzene	ND	ND	3.9	ND	ND	ND	ND	130,000
PCE	ND	ND	4.4	ND	ND	ND	ND	4,700
1,2,4-trimethylbenzene	ND	ND	8.3	ND	ND	ND	ND	51,000
1,3,5-trimethylbenzene	ND	ND	2	ND	ND	ND	ND	21,000

\* Preliminary Remediation Goal (Residential). "--" indicates no listed PRG.

### Discussion

The absence of PCE in shallow soil at the subject property is further evidence that the source of PCE contamination in groundwater is an upgradient source and did not originate at the subject property.

As noted on the lab reports, the detection limit for samples collected from CPT-2 was 1 ug/kg versus 10 ug/kg for MW-6. PCE was detected 4.4 ug/kg at 40 feet in CPT-2. The presence of this PCE is most likely an artifact of the underlying groundwater contamination. The presence of PCE at 40 feet may be due to the capillary fringe extending to that depth and/or may be related to volatilization of PCE in the groundwater.

Furthermore, when organic compounds such as PCE exist in soil and they are exposed to groundwater (or leaching from rainwater) they partition between the soil and the water in predictable ways. This partitioning depends on chemical and physical properties of the compound and of the soil. Clayton used the ASTM Risk-Based Corrective Action (RBCA) methodology from Standard E 1739-95 and the Groundwater Services, Inc. RBCA computer program, to determine this partitioning for PCE. Using the conservative Tier I default values for soil parameters, the model predicts that PCE will partition such that the concentration in soil is about 250 times greater than that in groundwater. Therefore, the concentration of PCE in groundwater in MW-6 at the subject site is over 30 times the soil concentration detected at CPT-2. This indicates that the source of PCE in groundwater is not from subsurface soil leaching into the groundwater. Furthermore, as you know, CPT-2 is located approximately 150 feet downgradient from MW-6, where groundwater is known to be contaminated with PCE.

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November 19, 1999

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The other VOCs in the soil are likely associated with petroleum hydrocarbons and may be residual concentrations left in soil following the historic excavation. The low soil concentrations, relatively low toxicities, and absence of these compounds in groundwater indicate that these compounds are stable and have not impacted groundwater.

### **Summary and Conclusions**

- Soil samples were collected from native soil adjacent to the former excavation.
- Chlorinated VOCs were not detected in any of the soil samples collected except the one soil sample from boring CPT-2 at 40 feet, which contained very low concentrations of PCE. The PCE in this sample is attributed to contaminated groundwater underlying the sample.
- Soil samples collected by Clayton in September 1999 during the installation of monitoring well MW-6, located approximately 150 feet north of CPT-2, in the northern portion of the former excavation, also did not contain VOCs, with the exception of one sample, at a depth of 50 feet. That sample, which was located in the water-bearing zone, contained 13 ug/kg PCE, and the PCE in soil was attributed to its contact with the groundwater. These results are consistent with results for CPT-2; however, the detection limit for CPT-2 was an order of magnitude lower than that for MW-6.
- The VOCs detected during this investigation and during the installation of MW-6 are substantially lower than their respective USEPA Region 9 Preliminary Remediation Goals (PRGs) for residential soil.
- Information presented in Clayton's *Additional Monitoring Well Installation, Groundwater Sampling, and File Review* report (September 29, 1999) indicated that groundwater underlying the subject property is contaminated with PCE, TCE, and other VOCs, and noted several documented upgradient sources of the contamination.
- All of the soil sample data collected to date from the subject property continue to confirm that there is no onsite source of PCE. The absence of PCE in all of the shallow soil samples collected at the subject property during this investigation is further evidence that the source of PCE contamination in groundwater and subsurface soil has not originated at the subject property, but at an upgradient source.
- With the exception of PCE, none of the compounds found in soil during this assessment have been detected in groundwater during previous groundwater sampling by Clayton and others at the subject property. The other VOCs in the



Mr. Jimmy Woo  
Los Angeles Regional Water Quality Control Board  
November 19, 1999

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soil are likely associated with petroleum hydrocarbons and may be residual concentrations left in soil following the historic excavation. The low soil concentrations and absence of these compounds in groundwater indicate that these compounds pose little concern to groundwater under the subject property.

WHC-Six will continue to monitor groundwater at the subject property, pursuant to the requirements of the RWQCB's November 4, 1999 letter. However, Clayton and WHC-Six believe that the additional soil sampling conducted pursuant to the approved workplan has confirmed cleanup of the bottom and sidewalls of the northern area excavation as requested in the letter. We therefore request that the RWQCB issue a soil closure for this site. Since the real estate transaction is a time-sensitive issue, your prompt attention is appreciated.

Please contact Trevor Donaghu at (925) 426-2625 or Rick Fehler at (925) 426-2608 with any questions. Thank you in advance for your assistance and consideration.

Sincerely,

A handwritten signature of Trevor A. Donaghu.

Trevor A. Donaghu  
Senior Project Manager  
Real Estate and Financial Services

A handwritten signature of Jon A. Rosso, P.E.

Jon A. Rosso, P.E.  
Director  
Environmental Risk Management and Remediation  
San Francisco Regional Office

#### Attachments

1. Figure 1 – Sample Locations
2. CPT Log
3. Analytical Laboratory Reports

cc: WHC-Six Real Estate Limited Partnership, c/o Vera Ingram, Archon Group, L.P.  
Brad Burton, Archon Group, L.P.  
Steve Campbell, AMB  
Richard D. Fehler, Vice President, Clayton Environmental Consultants

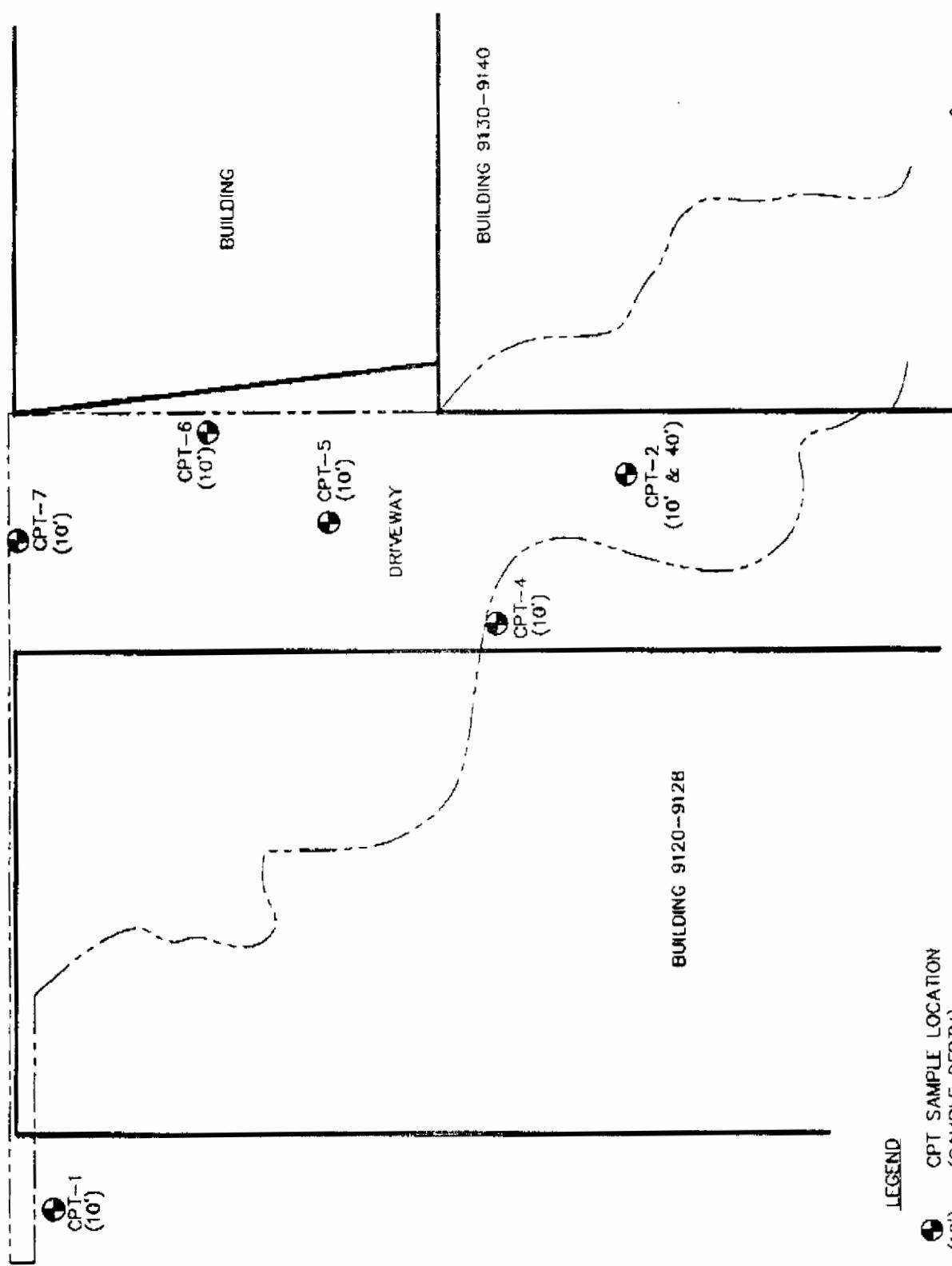
**Clayton**  
ENVIRONMENTAL  
CONSULTANTS

**ATTACHMENT 1**

**FIGURE 1 - SAMPLE LOCATIONS**



DRIVEWAY



## LEGEND

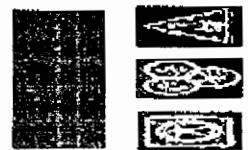
(10')  
CPT SAMPLE LOCATION  
(SAMPLE DEPTH)

— APPROXIMATE BOUNDARY  
OF FORMER EXCAVATION

FIGURE

1

## SAMPLE LOCATIONS

LOS NIETOS BUSINESS CENTER  
SANTE FE SPRINGS, CALIFORNIA

DATE:	11/16/99
DRAWN BY:	BRG
CHECKED BY:	GW
PROJECT NO:	70-00302.00.001
CAD NO:	00302002



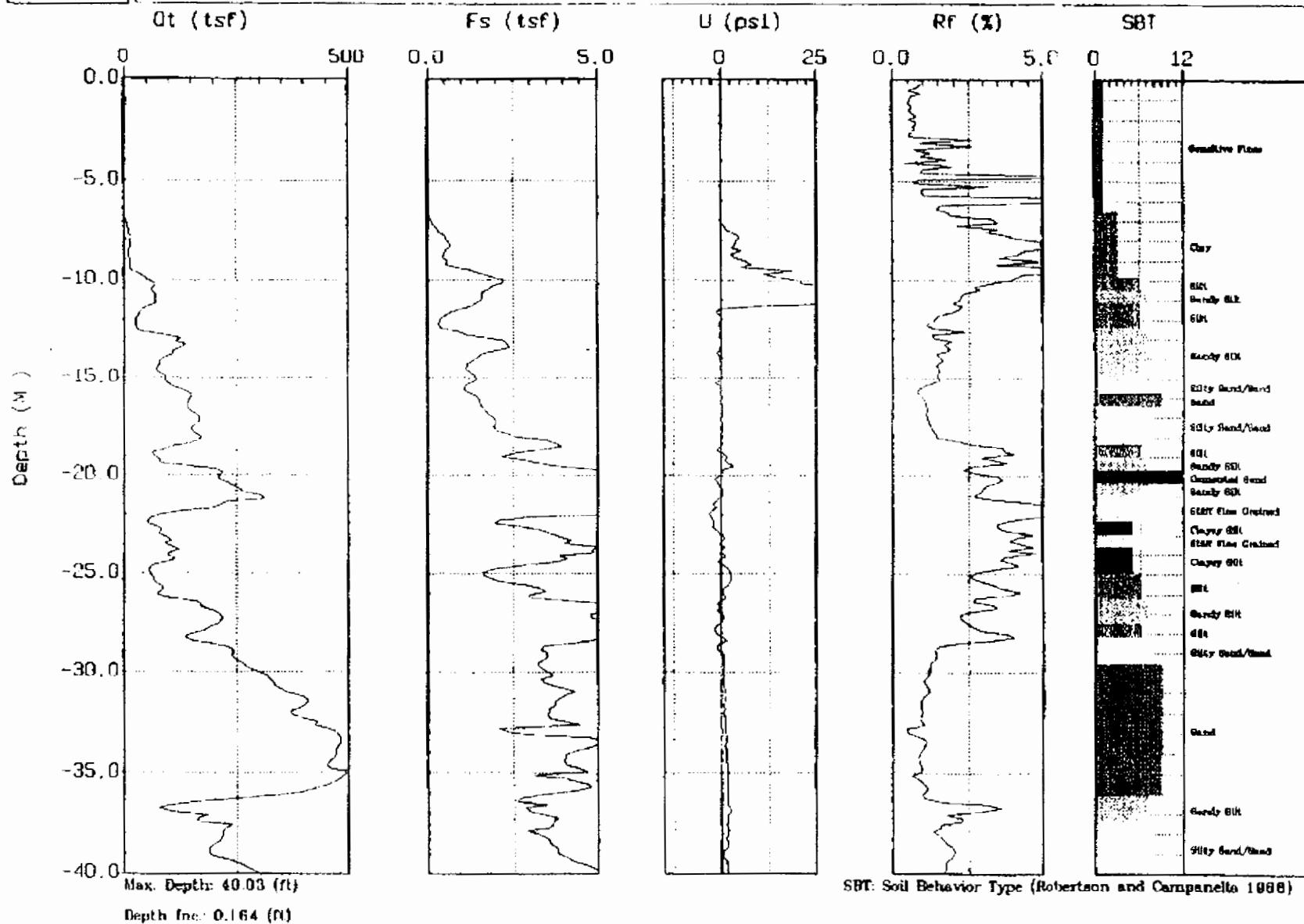
**ATTACHMENT 2**

**CPT LOG**

**GREGG**

# CLAYTON

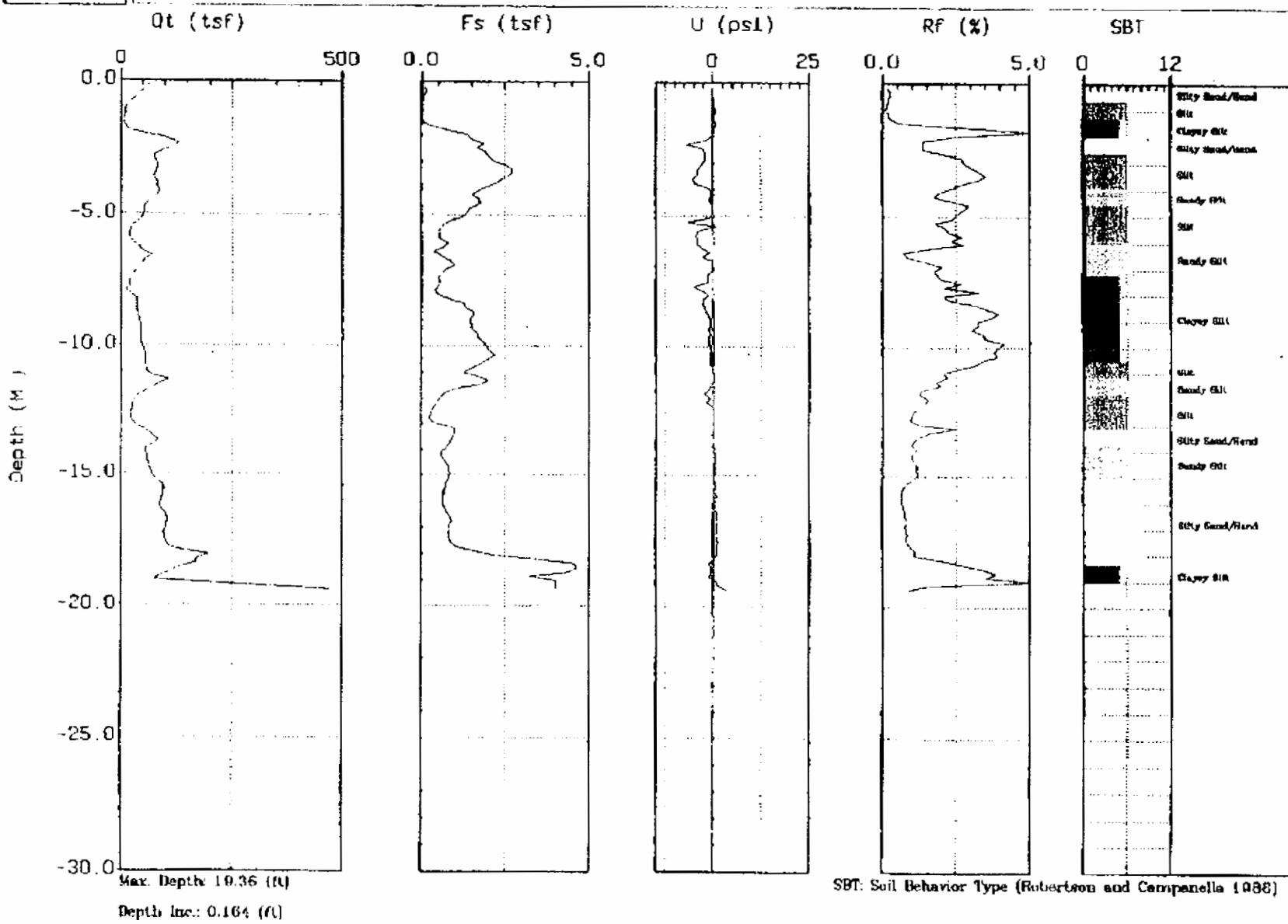
Site : LOS NIETOS BOSSN. PARK Geologist : B.HAWES  
Location : CPT-2A Date : 11/12/99 09:02



Sent by: CLAYTON PLEASANTON 9254261057; 11-16-99, 11:51AM; Clayton Los Angeles, CA, Pleasanton, CA, 11/22/99 10:28AM; JetFax #761; Page 11/21 714 825 0685 # 3/4



## CLAYTON

Site : LOS NIETOS BUSSN.PRK.  
Location : CPT-2Geologist : B.HAWES  
Date : 11/22/99 08:36

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**ATTACHMENT 3**

**ANALYTICAL LABORATORY REPORT**

Sent by: CLAYTON PLEASANTON

9254261057;

11/22/99 10:29AM; JetFax #761; Page 14/21

Received: 11/16/99 12:36PM;

714 8250885 -> CLAYTON PLEASANTON; Page 2

11-16-99; 11:25PM; Clayton Group-SOCal  
SENT BY: 714 261-5741 11-16-99 11:27AM ;DEL MAR ANALYTICAL -> Clayton Group-SOCal # 2/ 9

714 8250885 = 2/ 9  
11-16-99; 11:25PM; Clayton Group-SOCal  
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7610 Antelope Ave., Irwindale, CA 91706  
1014 E. Conroy Dr., Suite A, Colton, CA 92324  
11625 Sherman Way, Suite C-11, Van Nuys, CA 91406  
4441 Chesapeake Dr., Suite 806, San Diego, CA 92123  
8830 South 16th St., Suite D-170, Phoenix, AZ 85044  
(626) 261-4222 FAX (909) 261-1226  
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(714) 771-1244 FAX (714) 779-1142  
(619) 504-1658 FAX (619) 465-8689  
(480) 785-0043 FAX (480) 785-0681

 Del Mar Analytical

## LABORATORY REPORT

Prepared For: Clayton Env. Consultants  
3611 S. Harbor Blvd., Suite 260  
Santa Ana, CA 92704

Attention: Ed Stewart  
Project: 70-00302.00.001  
Los Nietos Business Center

Sampled: 11/12/99  
Received: 11/12/99  
Reported: 11/16/99

This laboratory report is confidential and is intended for the sole use of  
Del Mar Analytical and its client. This entire report was reviewed and approved for release.

CA ELAP Certificate #1197  
AZ DHS License #AZ0428

DEL MAR ANALYTICAL

  
Fred Haley

Project Manager

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IKA1844.CLE <1 of 9>

Received: 11/16/99 12:36PM;

714 8250685 -&gt; CLAYTON PLEASANTON, Page 3

714 8250685

3/ 9

11-16-99 1:25PM: Clayton Group-SoCal  
SENT BY: 714 261-5741

11-16-99 11:28AM :DEL MAR ANALYTICAL -&gt; Clayton Group-SoCal:# 3/ 9



Clayton Env. Consultants  
3611 S. Harbor Blvd., Suite 260  
Santa Ana, CA 92704  
Attention: Ed Stewart

Client Project ID: 70-00302.00.001

Los Nietos Business Center

Sample Descript: Soil, CPT-7-10

Lab Number: IK01844

QC Batch: IK15081S

2852 Adam Ave., Irwindale, CA 91706  
1014 E Cooley Dr., Suite A, Cypress, CA 90630  
16521 Sherman Way, Suite C-11, Van Nuys, CA 91406  
9481 Chiaromonte Dr., Suite 205, Sun City, AZ 85372  
4930 South 57th St., Suite B-120, Phoenix, AZ 85044

(408) 261-1622 FAX (408) 261-1250  
(408) 370-4947 FAX (408) 370-1060  
(818) 770-1734 FAX (818) 770-1843  
(602) 505-8504 FAX (602) 505-8640  
(480) 785-0043 FAX (480) 785-0851

Sampled: 11/12/99

Received: 11/12/99

Extracted: 11/15/99

Analyzed: 11/16/99

Reported: 11/16/99

## VOLATILE ORGANICS by GC/MS (EPA 8260B)

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Benzene.....	2.0	N.D.	Ethylbenzene.....	2.0	N.D.
Bromobenzene.....	5.0	N.D.	Hexachlorobutadiene.....	5.0	N.D.
Bromoform.....	5.0	N.D.	Isopropylbenzene.....	2.0	N.D.
Bromodichloromethane.....	2.0	N.D.	p-Isopropyltoluene.....	2.0	N.D.
Bromomethane.....	5.0	N.D.	Methylene chloride.....	20	N.D.
n-Butylbenzene.....	5.0	N.D.	Naphthalene.....	5.0	N.D.
sec-Butylbenzene.....	5.0	N.D.	n-Propylbenzene.....	2.0	N.D.
tert-Butylbenzene.....	5.0	N.D.	Styrene.....	2.0	N.D.
Carbon tetrachloride.....	5.0	N.D.	1,1,1,2-Tetrachloroethane.....	5.0	N.D.
Chlorobenzene.....	2.0	N.D.	1,1,2,2-Tetrachloroethane.....	2.0	N.D.
Chloroethane.....	5.0	N.D.	Tetrachloroethene.....	2.0	N.D.
Chloroform.....	2.0	N.D.	Toluene.....	2.0	N.D.
Chloromethane.....	5.0	N.D.	1,2,3-Trichlorobenzene.....	5.0	N.D.
2-Chlorotoluene.....	5.0	N.D.	1,2,4-Trichlorobenzene.....	5.0	N.D.
4-Chlorotoluene.....	5.0	N.D.	1,1,1-Trichloroethane.....	2.0	N.D.
Dibromochloromethane.....	2.0	N.D.	1,1,2-Trichloroethane.....	2.0	N.D.
1,2-Dibromo-3-chloropropane.....	5.0	N.D.	Trichloroethylene.....	2.0	N.D.
1,2-Dibromoethane.....	2.0	N.D.	Trichlorofluoromethane.....	5.0	N.D.
Dibromomethane.....	2.0	N.D.	1,2,3-Trichloropropane.....	10	N.D.
1,2-Dichlorobenzene.....	2.0	N.D.	1,2,4-Trimethylbenzene.....	2.0	N.D.
1,3-Dichlorobenzene.....	2.0	N.D.	1,3,5-Trimethylbenzene.....	2.0	N.D.
1,4-Dichlorobenzene.....	2.0	N.D.	Vinyl chloride.....	5.0	N.D.
Dichlorodifluoromethane.....	5.0	N.D.	o-Xylene.....	2.0	N.D.
1,1-Dichloroethane.....	2.0	N.D.	m,p-Xylenes.....	2.0	N.D.
1,2-Dichloroethane.....	2.0	N.D.			
1,1-Dichloroethone.....	5.0	N.D.			
cis-1,2-Dichloroethene.....	2.0	N.D.			
trans-1,2-Dichloroethene.....	2.0	N.D.			
1,2-Dichloropropane.....	2.0	N.D.			
1,3-Dichloropropane.....	2.0	N.D.			
2,2-Dichloropropane.....	2.0	N.D.			
1,1-Dichloropropene.....	2.0	N.D.			
cis-1,3-Dichloropropene.....	2.0	N.D.			
trans-1,3-Dichloropropene.....	2.0	N.D.			

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL (ELAP #1197)

Fred Holcy  
Project Manager

Surrogate Standard Recoveries (Accept. Limits)	
Dibromodifluoromethane (80-120)....	105%
Toluene-d8 (81-117) .....	104%
4-Bromofluorobenzene (74-121)....	99%

Results pertain only to samples tested in this laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

IK01844.CLE &lt;2 of 9&gt;

Received: 11/16/99 12:37PM;

714 8250685 -&gt; CLAYTON PLEASANTON; Page 4

11-16-99; 11:25PM; Clayton Group-SoCal  
SENT BY: 714 261-5741

11-16-99 11:28AM :DEL MAR ANALYTICAL - Clayton Group-SoCal ;# 4 / 9



2652 Alton Ave., Irvine, CA 92606  
 1014 C County Dr., Suite A, Palmdale, CA 93554  
 16325 Sherman Way, Studio C-11, Van Nuys, CA 91408  
 9491 Chelmsford Dr., Suite 600, San Diego, CA 92121  
 0850 South 51st St., Suite H-120, Phoenix, AZ 85040  
 (714) 261-1622 FAX (714) 261-1778  
 (800) 377-1667 FAX (800) 377-1646  
 (619) 770-1644 FAX (619) 770-1643  
 (619) 805-4258 FAX (619) 805-4240  
 (800) 785-0047 FAX (800) 785-0051

Clayton Env. Consultants  
 3611 S. Harbor Blvd., Suite 250  
 Santa Ana, CA 92704  
 Attention: Ed Stewart

Client Project ID: 70-00302.00.001  
 Los Nietos Business Center  
 Sample Descript: Soil, CPT-2-10  
 Lab Number: IK0184S  
 OC Batch: IK15091S

Sampled: 11/12/99  
 Received: 11/12/99  
 Extracted: 11/15/99  
 Analyzed: 11/16/99  
 Reported: 11/16/99

### VOLATILE ORGANICS by GC/MS (EPA 8260B)

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Benzene.....	2.0	N.D.	Ethylbenzene.....	2.0	N.D.
Bromobenzene.....	5.0	N.D.	Hexachlorobutadiene.....	5.0	N.D.
Bromoform.....	5.0	N.D.	Isopropylbenzene.....	2.0	N.D.
Bromodichloromethane.....	2.0	N.D.	p-Isopropyltoluene.....	2.0	N.D.
Bromoform.....	5.0	N.D.	Methylene chloride.....	20	N.D.
Bromomethane.....	5.0	N.D.	Naphthalene.....	5.0	N.D.
n-Butylbenzene.....	5.0	N.D.	n-Propylbenzene.....	2.0	N.D.
sec-Butylbenzene.....	5.0	N.D.	Styrene.....	2.0	N.D.
tert-Butylbenzene.....	5.0	N.D.	1,1,1,2-Tetrachloroethane.....	5.0	N.D.
Carbon tetrachloride.....	5.0	N.D.	1,1,2,2-Tetrachloroethene.....	2.0	N.D.
Chlorobenzene.....	2.0	N.D.	Tetrachloroethene.....	2.0	N.D.
Chloroethane.....	5.0	N.D.	Toluene.....	2.0	N.D.
Chloroform.....	2.0	N.D.	1,2,3-Trichlorobenzene.....	5.0	N.D.
Chloromethane.....	5.0	N.D.	1,2,4-Trichlorobenzene.....	5.0	N.D.
2-Chlorotoluene.....	5.0	N.D.	1,1,1-Trichloroethane.....	2.0	N.D.
4-Chlorotoluene.....	5.0	N.D.	1,1,2-Trichloroethane.....	2.0	N.D.
Dibromochloromethane.....	2.0	N.D.	Trichloroethene.....	2.0	N.D.
1,2-Dibromo-3-chloropropane.....	5.0	N.D.	Trichlorofluoromethane.....	5.0	N.D.
1,2-Dibromoethane.....	2.0	N.D.	1,2,3-Trichloropropane.....	10	N.D.
Dibromomethane.....	2.0	N.D.	1,2,4-Trimethylbenzene.....	2.0	N.D.
1,2-Dichlorobenzene.....	2.0	N.D.	1,3,5-Trimethylbenzene.....	2.0	N.D.
1,3-Dichlorobenzene.....	2.0	N.D.	Vinyl chloride.....	5.0	N.D.
1,4-Dichlorobenzene.....	2.0	N.D.	o-Xylene.....	2.0	N.D.
Dichlorodifluoromethane.....	5.0	N.D.	m,p-Xylenes.....	2.0	N.D.
1,1-Dichloroethane.....	2.0	N.D.			
1,2-Dichloroethane.....	2.0	N.D.			
1,1-Dichloroethene.....	5.0	N.D.			
cis-1,2-Dichloroethene.....	2.0	N.D.			
trans-1,2-Dichloroethene.....	2.0	N.D.			
1,2-Dichloropropane.....	2.0	N.D.			
1,3-Dichloropropane.....	2.0	N.D.			
2,2-Dichloropropane.....	2.0	N.D.			
1,1-Dichloropropene.....	2.0	N.D.			
cis-1,3-Dichloropropene.....	2.0	N.D.			
trans-1,3-Dichloropropene.....	2.0	N.D.			

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL (ELAP #1187)  
 Fred Haley  
 Project Manager

Surrogate Standard Recoveries (Accept. Limits):	
Dibromochloromethane (80-120).....	104%
Toluene-d8 (81-117).....	103%
4-Bromo-1-Chlorobenzene (74-121).....	99%

Results pertain only to samples tested in this laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

IK01844 CLE <3 of 9>

Received: 11/16/99 12:37PM;

714 8260685 -&gt; CLAYTON PLEASANTON; Page 5

714 8260685

11-16-99 11:25PM: Clayton Group-SoCal  
SENT BY: 714 261-5741

11-16-99 11:29AM :DEL MAR ANALYTICAL - Clayton Group-SoCal: # 5/ 9



Clayton Env. Consultants  
3611 S. Harbor Blvd., Suite 260  
Santa Ana, CA 92704  
Attention: Ed Stewart

Client Project ID: 70-D0302 00.001

Los Nietos Business Center  
Sample Descript: Soil, CPT-2-40  
Lab Number: IK01846  
QC Batch: IK15091S

2652 Alton Ave., Indep., CA 92606  
1014 E. Coolay Ln., Suite A, Costa, CA 92626  
16020 Sherman Way, Suite C-11, Van Nuys, CA 91408  
P.O. Box 161400, San Diego, CA 92161  
9590 South Chat St., Steir B-120, Phoenix, AZ 85044  
(646) 261-1222 FAX (919) 281-1278  
(800) 314-4667 FAX (305) 370-1046  
(316) 773-1044 FAX (619) 773-1843  
(618) 205-4580 FAX (619) 505-9580  
(480) 785-0045 FAX (415) 785-0051

Sampled: 11/12/99  
Received: 11/12/99  
Extracted: 11/15/99  
Analyzed: 11/15/99  
Reported: 11/16/99

## VOLATILE ORGANICS by GC/MS (EPA 8260B)

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Benzene.....	2.0	N.D.	Ethylbenzene.....	2.0	N.D.
Bromobenzene.....	5.0	N.D.	Hexachlorobutadiene.....	5.0	N.D.
Bromoform.....	5.0	N.D.	Isopropylbenzene.....	2.0	N.D.
Bromodichloromethane.....	2.0	N.D.	p-Isopropyltoluene.....	2.0	12
Bromoform.....	5.0	N.D.	Methylene chloride.....	20	N.D.
Bromomethane.....	5.0	N.D.	Naphthalene.....	5.0	45
n-Butylbenzene.....	5.0	14	n-Propylbenzene.....	2.0	3.9
sec-Butylbenzene.....	5.0	6.3	Styrene.....	2.0	N.D.
Isot-Butylbenzene.....	5.0	N.D.	1,1,1,2-Tetrachloroethane.....	5.0	N.D.
Carbon tetrachloride.....	5.0	N.D.	1,1,2,2-Tetrachloroethane.....	2.0	N.D.
Chlorobenzene.....	2.0	N.D.	Tetrachloroethane.....	2.0	4.4
Chloromethane.....	5.0	N.D.	Toluene.....	2.0	N.D.
Chloroform.....	2.0	N.D.	1,2,3-Trichlorobenzene.....	5.0	N.D.
Chloromethane.....	5.0	N.D.	1,2,4-Trichlorobenzene.....	5.0	N.D.
2-Chlorotoluene.....	5.0	N.D.	1,1,1-Trichloroethane.....	2.0	N.D.
4-Chlorotoluene.....	5.0	N.D.	1,1,2-Trichloroethane.....	2.0	N.D.
Dibromochloromethane.....	2.0	N.D.	Trichloroethene.....	2.0	N.D.
1,2-Dibromo-3-chloropropane.....	5.0	N.D.	Trichlorofluoromethane.....	5.0	N.D.
1,2-Dibromoethane.....	2.0	N.D.	1,2,3-Trichloropropane.....	10	N.D.
Dibromomethane.....	2.0	N.D.	1,2,4-Trimethylbenzene.....	2.0	8.3
1,2-Dichlorobenzene.....	2.0	N.D.	1,3,5-Trimethylbenzene.....	2.0	2.0
1,3-Dichlorobenzene.....	2.0	N.D.	Vinyl chloride.....	5.0	N.D.
1,4-Dichlorobenzene.....	2.0	N.D.	o-Xylene.....	2.0	N.D.
Dichlorodifluoromethane.....	5.0	N.D.	m,p-Xylenes.....	2.0	N.D.
1,1-Dichloroethane.....	2.0	N.D.			
1,2-Dichloroethane.....	2.0	N.D.			
1,1-Dichloroethene.....	5.0	N.D.			
cis-1,2-Dichloroethene.....	2.0	N.D.			
trans-1,2-Dichloroethene.....	2.0	N.D.			
1,2-Dichloropropane.....	2.0	N.D.			
1,3-Dichloropropane.....	2.0	N.D.			
2,2-Dichloropropane.....	2.0	N.D.			
1,1-Dichloropropene.....	2.0	N.D.			
cis-1,3-Dichloropropene.....	2.0	N.D.			
trans-1,3-Dichloropropene.....	2.0	N.D.			

Analytics reported as N.D. were not present at or above the reporting limit.

## DEL MAR ANALYTICAL (ELAP #1197)

Fred Haley  
Project Manager

Surrogate Standard Recoveries (Accpt. Limits)	
Dibromofluoromethane (80-120)....	103%
Toluene-d8 (81-117).....	105%
4-Bromofluorobenzene (74-121).....	104%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

IK01846.CLE &lt;4 of 9&gt;

Received: 11/16/99 12:38PM;

714 8250685 -&gt; CLAYTON PLEASANTON; Page 6

11-16-99; 11:28PM, Clayton Group-SoCal  
SENT BY: 714 261-5741

11-16-99 11:28AM DEL MAR ANALYTICAL - Clayton Group-SoCal; # 6/ 9



Clayton Env. Consultants  
3611 S. Harbor Blvd., Suite 260  
Santa Ana, CA 92704  
Attention: Ed Stewart

Client Project ID: 70-00302.00.001

Los Nietos Business Center  
Sample Descript: Soil, CPT-4-10  
Lab Number: IK01847  
QC Batch: IK15091S

Sampled: 11/12/99

Received: 11/12/99

Extracted: 11/15/99

Analyzed: 11/15/99

Reported: 11/16/99

1862 Alton Ave., Buena, CA 94526 (843) 261-1022 FAX (945) 261-1230  
1014 E. Guadalupe Dr., Suite A, Chino, CA 91709 (800) 370-4767 FAX (609) 370-1019  
1155A Sherman Way, Suite C-11, Van Nuys, CA 91408 (818) 775-1644 FAX (619) 770-1643  
1701 Camino De La Reina, San Diego, CA 92120 (619) 555-9599 FAX (619) 555-3680  
1001 South 51st St., Suite D-120, Phoenix, AZ 85044 (480) 784-0043 FAX (480) 784-0881

### VOLATILE ORGANICS by GC/MS (EPA 8260B)

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Benzene.....	2.0	N.D.	Ethylbenzene.....	2.0	N.D.
Bromobenzene.....	5.0	N.D.	Hexachlorobutadiene.....	5.0	N.D.
Bromoform.....	5.0	N.D.	Isopropylbenzene.....	2.0	N.D.
Bromodichloromethane.....	2.0	N.D.	p-Isopropyltoluene.....	2.0	N.D.
Bromoform.....	5.0	N.D.	Methylene chloride.....	20	N.D.
Bromomethane.....	5.0	N.D.	Naphthalene.....	5.0	N.D.
n-Butylbenzene.....	5.0	N.D.	n-Propylbenzene.....	2.0	N.D.
sec-Butylbenzene.....	5.0	N.D.	Styrene.....	2.0	N.D.
tert-Butylbenzene.....	5.0	N.D.	1,1,1,2-Tetrachloroethane.....	5.0	N.D.
Carbon tetrachloride.....	5.0	N.D.	1,1,2,2-Tetrachloroethane.....	2.0	N.D.
Chlorobenzene.....	2.0	N.D.	Tetrachloroethene.....	2.0	N.D.
Chloroethane.....	5.0	N.D.	Toluene.....	2.0	N.D.
Chloroform.....	2.0	N.D.	1,2,3-Trichlorobenzene.....	5.0	N.D.
Chloromethane.....	5.0	N.D.	1,2,4-Trichlorobenzene.....	5.0	N.D.
2-Chlorotoluene.....	5.0	N.D.	1,1,1-Trichloroethane.....	2.0	N.D.
4-Chlorotoluene.....	5.0	N.D.	1,1,2-Trichloroethane.....	2.0	N.D.
Dibromochloromethane.....	2.0	N.D.	Trichloroethene.....	2.0	N.D.
1,2-Dibromo-3-chloropropane.....	5.0	N.D.	Trichlorofluoromethane.....	5.0	N.D.
1,2-Dibromoethane.....	2.0	N.D.	1,2,3-Trichloropropane.....	10	N.D.
Dibromomethane.....	2.0	N.D.	1,2,4-Trimethylbenzene.....	2.0	N.D.
1,2-Dichlorobenzene.....	2.0	N.D.	1,3,5-Trimethylbenzene.....	2.0	N.D.
1,3-Dichlorobenzene.....	2.0	N.D.	Vinyl chloride.....	5.0	N.D.
1,4-Dichlorobenzene.....	2.0	N.D.	o-Xylene.....	2.0	N.D.
Dichlorodifluoromethane.....	5.0	N.D.	m,p-Xylenes.....	2.0	N.D.
1,1-Dichloroethane.....	2.0	N.D.			
1,2-Dichloroethane.....	2.0	N.D.			
1,1-Dichloroethene.....	5.0	N.D.			
cis-1,2-Dichloroethene.....	2.0	N.D.			
trans-1,2-Dichloroethene.....	2.0	N.D.			
1,2-Dichloropropane.....	2.0	N.D.			
1,3-Dichloropropane.....	2.0	N.D.			
2,2-Dichloropropane.....	2.0	N.D.			
1,1-Dichloropropene.....	2.0	N.D.			
cis-1,3-Dichloropropene.....	2.0	N.D.			
trans-1,3-Dichloropropene.....	2.0	N.D.			

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL (ELAP #1197)

Fred Haloy  
Project Manager

Surrogate Standard Recoveries (Accept. Limits)
1,2-Dibromoethane (60-120)..... 105%
Toluene-d8 (81-117)..... 107%
4-Bromofluorobenzene (74-121)..... 99%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

IK01844.CLE &lt;5 of 9&gt;

Received: 11/16/99 12:30PM;

714 8250685 -&gt; CLAYTON PLEASANTON; Page 7

11-16-99 1:25PM (Clayton Group-SoCal)  
SENT BY: 714 261-5741

11-16-99 :11:29AM :DEL MAR ANALYTICAL -&gt; Clayton Group-SoCal:# 7/ 9



2652 Alton Ave., Irvine, CA 92616 (714) 261-1022 FAX (714) 261-1798  
 1014 E. Coolay Dr., Suite A, Corona, CA 92879 (909) 370-4667 FAX (909) 370-1048  
 18525 Sherman Way, Suite C-11, Van Nuys, CA 91408 (818) 779-1844 FAX (818) 779-1849  
 9181 Chirkapaka Dr., Suite 602, San Diego, CA 92126 (619) 506-8586 FAX (619) 506-8580  
 9090 South 11st St., Suite F-120, Phoenix, AZ 85014 (480) 725-4043 FAX (480) 725-0551

Clayton Env. Consultants  
3611 S. Harbor Blvd., Suite 260  
Santa Ana, CA 92704  
Attention: Ed Stewart

Client Project ID: 70-00302.00.001

Los Nogales Business Center

Sample Descript: Soil, CPT-6-10

Lab Number: IK01848

QC Batch: IK15091S

Sampled: 11/12/99

Received: 11/12/99

Extracted: 11/15/99

Analyzed: 11/15/99

Reported: 11/16/99

### VOLATILE ORGANICS by GC/MS (EPA 8260B)

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Benzene.....	2.0	N.D.	Ethylbenzene.....	2.0	N.D.
Bromobenzene.....	5.0	N.D.	Hexachlorobutadiene.....	5.0	N.D.
Bromoform.....	5.0	N.D.	Isopropylbenzene.....	2.0	N.D.
Bromochloromethane.....	5.0	N.D.	p-Isopropyltoluene.....	2.0	N.D.
Bromodichloromethane.....	2.0	N.D.	Methylene chloride.....	20	N.D.
Bromoform.....	5.0	N.D.	Naphthalene.....	5.0	N.D.
Bromomethane.....	5.0	N.D.	n-Propylbenzene.....	2.0	N.D.
n-Butylbenzene.....	5.0	N.D.	Styrene.....	2.0	N.D.
sec-Butylbenzene.....	5.0	N.D.	1,1,1,2-Tetrachloroethane.....	5.0	N.D.
tert-Butylbenzene.....	5.0	N.D.	1,1,2,2-Tetrachloroethane.....	2.0	N.D.
Carbon tetrachloride.....	5.0	N.D.	Tetrachloroethene.....	2.0	N.D.
Chlorobenzene.....	2.0	N.D.	Toluene.....	2.0	N.D.
Chloroethane.....	5.0	N.D.	1,2,3-Trichlorobenzene.....	5.0	N.D.
Chloroform.....	2.0	N.D.	1,2,4-Trichlorobenzene.....	5.0	N.D.
Chloromethane.....	5.0	N.D.	1,1,1-Trichloroethane.....	2.0	N.D.
2-Chlorotoluene.....	5.0	N.D.	1,1,2-Trichloroethane.....	2.0	N.D.
4-Chlorotoluene.....	5.0	N.D.	Trichloroethene.....	2.0	N.D.
Dibromoform.....	2.0	N.D.	Trichlorofluoromethane.....	5.0	N.D.
1,2-Dibromo-3-chloropropane.....	5.0	N.D.	1,2,3-Trichloropropane.....	10	N.D.
1,2-Dibromoethane.....	2.0	N.D.	1,2,4-Trimethylbenzene.....	2.0	N.D.
Dibromomethane.....	2.0	N.D.	1,3,5-Trimethylbenzene.....	2.0	N.D.
1,2-Dichlorobenzene.....	2.0	N.D.	Vinyl chloride.....	5.0	N.D.
1,3-Dichlorobenzene.....	2.0	N.D.	o-Xylene.....	2.0	N.D.
1,4-Dichlorobenzene.....	2.0	N.D.	m,p-Xylenes.....	2.0	N.D.
Dichlorodifluoromethane.....	5.0	N.D.			
1,1-Dichloroethane.....	2.0	N.D.			
1,2-Dichloroethane.....	2.0	N.D.			
1,1-Dichloroethene.....	5.0	N.D.			
cis-1,2-Dichloroethene.....	2.0	N.D.			
trans-1,2-Dichloroethene.....	2.0	N.D.			
1,2-Dichloropropane.....	2.0	N.D.			
1,3-Dichloropropane.....	2.0	N.D.			
2,2-Dichloropropane.....	2.0	N.D.			
1,1-Dichloropropene.....	2.0	N.D.			
cis-1,3-Dichloropropene.....	2.0	N.D.			
trans-1,3-Dichloropropene.....	2.0	N.D.			

Analytes reported as N.D. were not present at or above the reporting limit.

**DEL MAR ANALYTICAL (ELAP #1197)**Fred Haley  
Project Manager

Surrogate Standard Recoveries (Accept Limits):	
Dibromodifluoromethane (80-120)....	104%
Toluene-d8 (81-117).....	105%
6-Bromofluorobenzene (74-121)....	98%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

IKC1844.CLE &lt;6 of 9&gt;

Sent by: CLAYTON PLEASANTON

9254261057;

11/22/99 10:34AM; JetFax #761; Page 21/21

Received: 11/16/99 12:40PM;

714 8250885 -&gt; CLAYTON PLEASANTON; Page 9

11-16-99; 1:25PM; Clayton Group-SoCal

714 8250885

e 9/ 8

SENT BY: 714 261-5741

11-16-99 :11:30AM ;DEL MAR ANALYTICAL -&gt; Clayton Group-SoCal; # 9/ 9



2150 Alton Ave., Irvine, CA 92616  
 1015 F. Treaty Dr., Suite A, Costa Mesa, CA 92626  
 10525 Sherman Way, Suite C-11, Van Nuys, CA 91406  
 9194 Chula Vista Dr., Suite 805, San Diego, CA 92126  
 8910 South 3rd St., Suite D-120, Phoenix, AZ 85044  
 (714) 261-1122 FAX (714) 261-1228  
 (310) 570-4497 FAX (800) 337-1048  
 (619) 778-1844 FAX (619) 778-1843  
 (619) 505-4500 FAX (813) 898-0099  
 (404) 765-0042 FAX (404) 765-0481

Clayton Env. Consultants  
 3611 S. Harbor Blvd., Suite 260  
 Santa Ana, CA 92704  
 Attention: Ed Stewart

Client Project ID: 70-00302.00.001  
 Los Nietos Business Center  
 Sample Descript: Soil, CPT-1-10  
 Lab Number: IK01850  
 QC Batch: IK15091S

Sampled: 11/12/99  
 Received: 11/12/99  
 Extracted: 11/15/99  
 Analyzed: 11/15/99  
 Reported: 11/16/99

### VOLATILE ORGANICS by GC/MS (EPA 8260B)

Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)	Analyte	Reporting Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Benzene .....	2.0	N.D.	Ethylbenzene.....	2.0	N.D.
Bromobenzene.....	5.0	N.D.	Hexachlorobutadiene.....	5.0	N.D.
Bromoform.....	5.0	N.D.	Isopropylbenzene.....	2.0	N.D.
Bromodichloromethane.....	2.0	N.D.	p-Isopropyltoluene.....	2.0	N.D.
Bromoform.....	5.0	N.D.	Methylene chloride.....	20	N.D.
Bromomethane.....	5.0	N.D.	Naphthalene.....	5.0	N.D.
n-Butylbenzene.....	5.0	N.D.	n-Propylbenzene.....	2.0	N.D.
sec-Butylbenzene.....	5.0	N.D.	Styrene.....	2.0	N.D.
tert-Butylbenzene.....	5.0	N.D.	1,1,1,2-Tetrachloroethane.....	5.0	N.D.
Carbon tetrachloride.....	5.0	N.D.	1,1,2,2-Tetrachloroethane.....	2.0	N.D.
Chlorobenzene.....	2.0	N.D.	Tetrachloroethene.....	2.0	N.D.
Chloroethane.....	5.0	N.D.	Toluene.....	2.0	N.D.
Chloroform.....	2.0	N.D.	1,2,3-Trichlorobenzene.....	5.0	N.D.
Chloromethane.....	5.0	N.D.	1,2,4-Trichlorobenzene.....	5.0	N.D.
2-Chlorotoluene.....	5.0	N.D.	1,1,1-Trichloroethane.....	2.0	N.D.
4-Chlorotoluene.....	5.0	N.D.	1,1,2-Trichloroethane.....	2.0	N.D.
Dibromochloromethane.....	2.0	N.D.	Trichloroethene.....	2.0	N.D.
1,2-Dibromo-3-chloropropane.....	5.0	N.D.	Trichlorofluoromethane.....	5.0	N.D.
1,2-Dibromoethane.....	2.0	N.D.	1,2,3-Trichloropropane.....	10	N.D.
Dibromomethane.....	2.0	N.D.	1,2,4-Trimethylbenzene.....	2.0	N.D.
1,2-Dichlorobenzene.....	2.0	N.D.	1,3,5-Trimethylbenzene.....	2.0	N.D.
1,3-Dichlorobenzene.....	2.0	N.D.	Vinyl chloride.....	5.0	N.D.
1,4-Dichlorobenzene.....	2.0	N.D.	o-Xylene.....	2.0	N.D.
Dichlorodifluoromethane.....	5.0	N.D.	m,p-Xylenes.....	2.0	N.D.
1,1-Dichloroethane.....	2.0	N.D.			
1,2-Dichloroethane.....	2.0	N.D.			
1,1-Dichloroethene.....	5.0	N.D.			
cis-1,2-Dichloroethene.....	2.0	N.D.			
trans-1,2-Dichloroethene.....	2.0	N.D.			
1,2-Dichloropropane.....	2.0	N.D.			
1,3-Dichloropropane.....	2.0	N.D.			
2,2-Dichloropropane.....	2.0	N.D.			
1,1-Dichloropropene.....	2.0	N.D.			
cis-1,3-Dichloropropene.....	2.0	N.D.			
trans-1,3-Dichloropropene.....	2.0	N.D.			

Analytics reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL (ELAP #1187)

Fred Haley  
 Project Manager

Surrogate Standard Recoveries (Acceptable Limits):	
Dibromodifluoromethane (80-120)....	105%
Toluene-d8 (81-117).....	105%
4-Bromodifluorobenzene (74-121)....	98%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, copied in full, without written permission from Del Mar Analytical.

IK01850.CLE <8 of 9>